

CARBOHYDRATE RESEARCH, VOL. 165 (1987)

AUTHOR INDEX

- ABBAS, S. A., 189, c14
 ADACHI, S., 43
 ASENSIO, A., 134
 ASPINALL, G. O., 281

 BACK, D. M., 173
 BATLEY, M., 17
 BRADY, J. W., 306
 BUCHALA, A. J., 146
 BUCK, H. M., 1

 CANAS-RODRIGUEZ, A., 129
 CASU, B., c1
 CARPENTER, R. C., 281
 CHAPMAN, H. D., 53
 CHMIELEWSKI, M., 111
 CHOAY, J., c1
 CORONEL-BORGES, L. A., 129

 DAVID, S., c11
 DE VRIES, N. K., 1
 DUBEY, R., 189

 ESQUERRE-TUGAYE, M.-T., 93

 FEDOR, L. R., 299
 FERNANDEZ-MAYORALAS, A., c11
 FERRO, D. R., c1
 FRENCH, D., 155

 GHOSH, P. S., 77
 GOLDBERG, R., 31
 GONZALEZ, L., 197
 GOODAY, G. W., 105
 GOW, N. A. R., 105
 GURJAR, M. K., 116, 313

 HANNA, N. B., 267
 HERVE DU PENHOAT, C., 31
 HIRANO, S., 120
 HIZUKURI, S., 139
 HOWLEY, P. S., 69

 IMAI, T., 123
 ITO, M., 150
 ITOH, T., 43

 JAIN, R. K., 189

 JANSSON, P.-E., 87
 JOSHI, B. V., 116
 JURCZAK, J., 111

 KHONDO, L., 281

 LEISOLA, M., 146
 LEONTEIN, K., 87
 LINDBERG, B., 87
 LORENTZEN, J. P., 207

 MACIEJEWSKI, S., 111
 MARIÑO-ALBERNAS, J. R., 197
 MATTÄ, K. L., 189, c14
 MATSUMURA, T., 120
 MCDOWELL, C. A., 161
 McNICHOLAS, P., 17
 MEYER, B., 251
 MICHON, V., 31
 MORRIS, V. J., 53
 MUKASA, H., 150

 NAGASAWA, K., 275
 NAGASE, T., 150

 OGAMO, A., 275
 OHNISHI, M., 155
 O'NEILL, M. A., 53

 PATIL, V. J., 313
 PAULSEN, H., 207, 229, 251
 PAWAR, S. M., 313
 PEREZ, C. S., 197
 PERLY, B., c1
 PETERS, T., 229, 251
 PETTITOU, M., c1
 POLAVARAPU, P. L., 173

 RAGAZZI, M., c1
 RAY, A. K., 77
 REDMOND, J. W., 17
 REVANKAR, G. R., 267
 ROBINS, R. K., 267
 ROBY, D., 93
 ROWLAND, S. P., 69
 ROY, A., 77
 ROY, N., 77
 RUSSELL, J. D., 105

SAITO, T., 43
SASTRY, D. L., 161
SELVENDRAN, R. R., 53
SHIMAMURA, A., 150
SINAY, P., c1
SINCLAIR, H. B., 23
SINNELL, V., 251
SOMOGYI, L., 318
SUZUKI, A., 139

TAKEDA, C., 139
TAKEDA, Y., 139
TAKEGOSHI, K., 161
TAKEO, K., 123

THOMAS, R. L., c14
TORRI, G., c1
TSUBOI, K., 150
TSUMORI, H., 150

VEREZ-BENCOMO, V., 197

WIDMALM, G., 87
WILSON, M. J., 105

YADAV, J. S., 116
YAMADA, T., 275

ZERCHER, C. K., 299

CARBOHYDRATE RESEARCH, VOL. 165 (1987)

SUBJECT INDEX

- Acetal linkage, formation of an unusually stable, 23
- Acetylation of acylhydrazones of penta-*O*-acetyl-*aldehyde*-D-galactose, substituent effects in the, 318
- Action of alkali on di-*O*-(2-bromoethylidene)-D-mannitols: formation of an unusually acid-stable acetal linkage, 23
- N*-Acyl derivatives of chitosan and their hydrolysis by chitinase, 120
- Acylhydrazones of penta-*O*-acetyl-*aldehyde*-D-galactose, substituent effects in the acetylation of, 318
- Aeromonas salmonicida*, synthesis of *O*-specific chain of lipopolysaccharide from, 207
- Amyloses of various origins and molar fractions of unbranched and branched molecules, structures of branched molecules of, 139
- Ammonium sulfate, fractionation of chondroitin sulfate C in the presence of, 275
- Analogues of apramycin, synthesis of, 129
- Apramycin analogues, synthesis of, 129
- Arabinans and galactans, development of, during the maturation of hypocotyl cells of mung bean (*Vigna radiata* Wilczek), 31
- Binding site of heparin to Antithrombin-III, conformation of the pentasaccharide corresponding to the, c1
- Bovine colostrum, chemical structure of three neutral trisaccharides from, 43
- Branched molecules of amyloses of various origins and molar fractions of unbranched and branched molecules, structures of, 139
- ¹³C chemical-shift tensors, in a single crystal of methyl α -D-glucopyranoside, determination of the, 161
- Celluloses, substituted, solution hydrolysis of the D-glucosidic linkages in, influence of location of substituents on, 69
- Characterization, by the binding of D-mannono-lactone of the subsites adjacent to the catalytic site of glucoamylase from *Rhizopus niveus*, 155
- Chitinases from melon plants infected by *Colletotrichum lagenarium*, purification and some properties of, 93
- Chitins of variable structure, infrared and X-ray diffraction data on, 105
- Chitosan, *N*-acyl derivatives of, and their hydrolysis by chitinase, 120
- Chondroitin sulfate C, shark cartilage, fractionation of, 275
- Colostrum, bovine, chemical structure of three neutral trisaccharides from, 43
- Conformation of the pentasaccharide corresponding to the binding site of heparin to Antithrombin-III, c1
- Conformational analysis of tetrasaccharides related to the structure of *N*-glycoproteins, 251
- "Core" tetrasaccharide of *N*-glycoproteins, synthesis of, 229
- Cork of *Quercus suber*, structural studies of a hemicellulose B fraction from the, 134
- 3-Deoxy-D-manno-oct-2-ulosonic acid (KDO), the reactions in dilute acid of, 17
- 6-Deoxy-1-thio- β -D-glucopyranoside, purin-6-yl, synthesis and biological properties of, 299
- Determination of the ¹³C chemical-shift tensors in a single crystal of methyl α -D-glucopyranoside, 161
- Development of arabinans and galactans during the maturation of hypocotyl cells of mung bean (*Vigna radiata* Wilczek), 31
- Different rotamer populations around the C-5-C-6 bond for α - and β -D-galactopyranosides through the combined interaction of the gauche and anomeric effects, a 300-MHz ¹H-n.m.r. and MNDO study of, 1
- 2,6-Dioxabicyclo[3.3.0]octan-3-one, synthesis from D-glucose of (1*R*,5*R*)-, 313
- Enantiospecific synthesis of (4*R*,5*R*)-5-hydroxy-4-decanolide from D-glucose, 116
- Escherichia coli* O78 O-antigen polysaccharide, structural studies of the, 87
- Fluorinated oligosaccharides, monodeoxy-, mucin-type, synthesis of, c14
- Formation of 6-deoxy-6-iodohexopyranosides as substrates for the hex-5-enose degradation, 281
- D-Fructans, from *Streptococcus mutans* serotype, b, c, e, and f strains, structural determination of, by ¹³C-n.m.r. spectroscopy, 150

- F.t.-i.r. spectra of sugars, vibrational assignments and isomerization rate-constants from time-dependent, 173
- β -D-Galactopyranoside protected at O-3 and O-6, synthesis of β -D-mannopyranoside from, c11
- Galactopyranosides, an n.m.r. and MNDO study of different rotamer populations around the C-5-C-6 bond for α - and β -D-, 1
- Gauche and anomeric effects, an n.m.r. and MNDO study of different rotamer populations around the C-5-C-6 bond for α - and β -D-galactopyranosides through the combined interactions of the, 1
- β -D-Glucan secreted by *Phanerochaete chrysosporium* in continuous culture, structure of the, 146
- Glucoamylase, from *Rhizopus niveus*, characterization of the subsites adjacent to the catalytic site of, by the binding of D-mannonolactone, 155
- β -D-Glucopyranose, molecular dynamics simulations of, 306
- α -D-Glucopyranoside, methyl determination of the ^{13}C chemical-shift tensors in a single crystal of, 161
- 4-O- β -D-Glucopyranosyl- α -L-rhamnopyranoside, 2,3,3',6'-tetra-O-methyl, allyl and benzyl, synthesis of, 197
- D-Glucose, synthesis of (1R,5R)-2,6-dioxabicyclo[3.3.0]octan-3-one from, 313
- N-Glycoproteins, synthesis of tetrasaccharides related to the core of, 229
- N-Glycoproteins, conformational analysis of tetrasaccharides related to the structure of, 251
- Hemicellulose B fraction from the cork of *Quercus suber*, structural studies of a, 134
- Hex-5-enose degradation, formation of 6-deoxy-6-iodo-hexopyranosides as substrates for the, 281
- Hexopyranosides, 6-deoxy-6-iodo-, formation of, as substrates for the hex-5-enose degradation, 281
- Hydrolysis of N-acyl derivatives of chitosan by chitinase, 120
- Hydroperoxides derived from sugars, stable enantiomerically pure, 111
- 5-Hydroxy-4-decanolide from D-glucose, an enantiospecific synthesis of (4R,5R)-, 116
- Hypocotyl cells of mung bean (*Vigna radiata* Wilczek), development of arabinans and galactans during the maturation of, 31
- Influence of the location of substituents in substituted celluloses on solution hydrolysis of the D-glucosidic linkages, 69
- Infrared and X-ray diffraction data on chitins of variable structure, 105
- Inversion at C-2 and C-4 of a β -D-galactopyranoside protected at O-3 and O-6, c11
- Light-scattering studies of pectic polysaccharides from the middle lamellae and primary cell walls of cider apples, static and dynamic, 53
- Lipopolysaccharide from *Aeromonas salmonicida*, O-specific chain, synthesis of, 207
- D-Mannitols, di-O-(2-bromomethylidene)-, the action of alkali on, 23
- β -D-Mannopyranoside protected at O-3 and O-6, synthesis of, c11
- 3-O- α -D-Mannopyranosyl- α -D-talopyranoside, methyl, synthesis of, 189
- Melon plants infected by *Colletotrichum lagenarium*, purification and some properties of chitinases from, 93
- Molecular dynamics simulations of β -D-glucopyranose, 306
- Mucin-type oligosaccharides, monodeoxyfluorinated, synthesis of, c14
- Mycobacterium leprae*, synthesis of the antigenic disaccharide of, 197
- Nigeran, synthesis of trisaccharide glycosides related to, 123
- Oct-2-ulosonic acid (KDO), the reactions in dilute acid of 3-deoxy-D-manno-, 17
- Oligosaccharides, Mucin-type, monodeoxyfluorinated, synthesis of, c14
- Pectic polysaccharides form the middle lamellae and primary cell walls of cider apples, static and dynamic light-scattering studies of, 53
- Pentasaccharide corresponding to the binding site of heparin to Antithrombin-III, conformation of the, c1
- Phanerochaete chrysosporium*, structure of the β -D-glucan secreted in continuous culture by, 146
- Polysaccharide, capsular, of *Klebsiella* serotype K 40, structure of the, 77
- Polysaccharide, structural studies of the *Escherichia coli* O78 O-antigen, 87
- Purification and some properties of chitinases from melon plants infected by *Colletotrichum lagenarium*, 93
- Purin-6-yl 6-deoxy-1-thio- β -D-glucopyranoside, synthesis and biological properties of, 299
- Reactions of 3-deoxy-D-manno-oct-2-ulosonic acid (KDO) in dilute acid, 17
- α -L-Rhamnopyranoside, allyl and benzyl 4-O- β -D-glucopyranosyl-, 2,3,3',6'-tetra-O-methyl, synthesis of, 197

- Ribavirin, 5'-O- β -D-glucopyranosyl and 5'-O- β -D-galactopyranosyl derivatives, synthesis of, 267
- Shark cartilage chondroitin sulfate C, fraction of, 275
- O-Specific chain of lipopolysaccharide from *Aeromonas salmonicida*, synthesis of, 207
- Stable, enantiomerically pure hydroperoxides derived from sugars, 111
- Static and dynamic light-scattering studies of pectic polysaccharides from the middle lamellae and primary cell walls of cider apples, 53
- Structural determination of D-fructans from *Streptococcus mutans* serotype b, c, e, and f strains, by ^{13}C -n.m.r. spectroscopy, 150
- Structural studies of a hemicellulose B fraction from the cork of *Quercus suber*, 134
- Structural studies of the *Escherichia coli* O78 O-antigen polysaccharide, 87
- Structure of the capsular polysaccharide of *Klebsiella* serotype K 40, 77
- Structure of the β -D-glucan secreted by *Phanerochaete chrysosporium* in continuous culture, 146
- Structures of branched molecules of amyloses of various origins, and molar fractions of unbranched and branched molecules, 139
- Substituent effects in the acetylation of acylhydrazones of penta-O-acetyl-aldehyde-D-galactose, 318
- Sugars, stable enantiomerically pure hydroperoxides derived from, 111
- Synthesis of apramycin analogues, 129
- Synthesis of 5'-O- β -D-glucopyranosyl and 5'-O- β -D-galactopyranosyl derivatives of ribavirin, 267
- Synthesis of (4R,5R)-5-hydroxy-4-decanolide from D-glucose, an enantiospecific, 116
- Synthesis of (1R,5R)-2,6-dioxabicyclo[3.3.0]octan-3-one from D-glucose, 313
- Synthesis of trisaccharide glycosides related to nigeran, 123
- α -D-Talopyranoside, 3-O- α -D-mannopyranosyl- and 3-O- α -D-talopyranosyl-, synthesis of, 189
- 3-O- α -D-Talopyranosyl- α -D-talopyranoside, methyl, synthesis of, 189
- Tetrasaccharides related to the core of N-glycoprotein, synthesis of, 229
- Tetrasaccharides related to the structure of N-glycoproteins, conformational analysis of, 251
- 1-Thio- β -D-glucopyranoside, 6-deoxy-, purin-6-yl, synthesis and biological properties of, 299
- Trisaccharide glycosides related to nigeran, synthesis of, 123
- Trisaccharides, neutral, from bovine colostrum, chemical structures of, 43
- Vibrational assignments and isomerization rate-constants from time-dependent F.T.-i.r. spectra of sugars, 173
- X-Ray diffraction and infrared data on chitins of variable structure, 105